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AUTHOR: Yeliseyev, F.G., Candidate of Technical Science, Docent SOV-3-58-8-7/26

TITLE: Research is Conducted According to a Joint Plan (Issledovaniya vedutsya po sovmeestnomu planu)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 32 - 34 (USSR)

ABSTRACT: The Rostovskiy sovnarkhoz (Rostov Sovnarkhoz) has played an eminent role in developing the scientific work of the Rostov Institute of RR Engineers. The institute already has established permanent cooperation with the Novocherkasskiy elektrovostroitel'nyy zavod imeni Budennogo (Novocherkassk Electric Locomotive Plant imeni Budenny), the Rostovenergo, the Kamenskaya TETs, the Nesvetay GRES and other Sovnarkhoz enterprises. The Sovnarkhoz also helps the institute by periodically examining and approving plans for the scientific work to be done by the enterprises of the district, by financing the agreement work, by placing at the institute's disposal facilities for experiments, etc. Last year, Doctor of Technical Science D.E. Karminskiy of the Chair for Designing and Repair of Locomotives solved the problem of the adaptation of locomotives to the curvature of a railway section. These results were at once applied in the building of new Soviet electric locomotives, thus improving their dynamic proper-

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SOV-3-58-8-7/26

Research is Conducted According to a Joint Plan

Docent A.I. Zelenov as an example. He also mentions the names of Docents Kh.N. Dement'yev and L.F. Bykadorov who are working on problems for enterprises other than the Rostov Sovnarkhoz. In conclusion the author speaks of plans for future cooperation with the enterprises which provide for a number of conferences.

ASSOCIATION: Rostovskiy institut inzhenerov zheleznodorozhnogo transporta (Rostov Institute of RR Engineers).

Card 3/3

~~ZELENOV~~, Aleksandr Ivanovich, dotsent, kand.tekhn.nauk; ~~YELISEYEV~~, F.G.,
retsensent; ~~ZHERNEKOV~~, I.V., red.; ~~ABRAMOVA~~, Ye.A., tekhn.red.

[Welding and surfacing of cast-iron parts] Svarka i naplavka
chugunnykh detalei. Rostov, Rostovskoe knizhnoe izd-vo, 1960.
115 p. (MIRA 14:3)

1. Rostovskiy institut inzhenerov zhelezнодорожного транспорта
(for Zelenov). (Hard facing)
(Cast iron--Welding)

KRIVORUCHKO, Nikolay Zakharovich, kand. tekhn. nauk; SLUSHAYENKO, A.M., dotsent, retsenzent; YELISEYEV, F.G., dots., retsenzent; LERNET, K.S., dots., retsenzent; GLUKHOV, V.A., dots., retsenzent; MIYANOV, P.I., inzh., retsenzent; TSIMIDANOV, V.M., inzh., retsenzent; DOROFYEV, V.G., inzh., retsenzent; KALEDENKOV, S.S., inzh., retsenzent; KOROLEV, A.N., inzh., retsenzent; LOKSHIN, Kh.A., inzh., retsenzent; FIRSOV, S.I., inzh., retsenzent; SHAKURSKIY, K.D., inzh., retsenzent; UTKIN, A.V., tekhn., retsenzent; VALETOV, A.I., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Operation, management, and repair of rolling stock] Vagonnoe khoz-
ziaistvo. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei
soobshchenia, 1961. 319 p. (MIRA 14:11)

1. Kafedra "Konstruktsiya, remont i ekspluatatsiya vagonov" Rostov-
skogo instituta inzhenerov zheleznodorozhnogo transporta (for all
except Valetov, Bobrova).
(Railroads—Rolling stock)

YELISEYEV, O.

Physical culture for the masses. Sov.profsoiuzy 5 no.6:15-1"
Je '57. (MIRA 10:7)

1. Zaveduyushchiy otdelom fiskul'tury i sporta Vsesoyuznogo
TSentral'nogo Soveta professional'nykh soyusov.
(Physical education and training)

YELISEYEV, G.

For new progress in the physical education movement. Soy. profsoiuzy
7 no. 7:24-27 Ap '59. (MIRA 12:7)

1. Zaveduyushchiy otdelom fizkul'tury i sporta Vsesoyuznogo
tsentral'nogo soveta profsoyuzov.
(Physical education and training)

YELISEYEV, G.

Brilliant triumph of Soviet sports. Sov. profsoiuzy 16 no.19:23-26
O '60. (MIRA 13:10)

1. Zaveduyuchchiy otделom fizkul'tury i sporta Vsesoyuznogo tsentral'-
nogo soveta profsoyuzov.
(Sports) (Rome--Olympic games)

YANITSKIY, G.; RUBANOVICH, [REDACTED], inzhener-mekhanik (Omsk);
KORYAKOVTSSEV, P.; YELISEYEV, G., inzhener (Ivanovo);
LIKHOVIDOV, I., frezerovshchik (Bratsk)

Suggested, achieved, introduced. Izobr. i rats. no.1:18.9
Ja '62. (MIRA 14:12)

1. Glavnyy inzhener Leningradskoy mebel'noy fabriki No.7 (for
Koryakovtsev).
(Technological innovations)

ACC NR: AR6028755

SOURCE CODE: UR/0269/66/000/006/0045/0045

AUTHOR: Yeliseyev, G. F.; Moiseyev, I. G.

TITLE: Certain properties of regions with proton and nonproton flares

SCOURCE: Ref. zh. Astronomiya, Abs. 6.51.366

REF SOURCE: Izv. Krymsk. astrofiz. observ., v. 34, 1965, 3-8

TOPIC TAGS: solar flare, solar radiation, solar activity, sunspot

ABSTRACT: An attempt is made to find the properties of radiation emanating from the active regions of the Sun which contain proton flares. It was shown that in these regions the outbursts of radiation in the centimeter band are on the average 3-4 times greater than in the regions without proton flares. A shift of the center of condensation (at wavelength of 21 cm) to the east of the sunspots with maximum magnetic fields was noted for regions of both types. The shift above the regions with proton flares however was smaller than the shift above regions without the proton flares. The intensities of the slowly varying components of the radiation practically do not differ when measured at 9 and 21 cm wavelengths. [Translation of summary]

SUB CODE: 03

Ccrd 1/1

UDC: 523.164.32

L 47397-66 EWT(1) GW/WS-2

ACC NR: AR6025795

SOURCE CODE: UR/0058/66/000/004/H058/H058

AUTHOR: Yeliseyev, G. F.; Moiseyev, I. G.

TITLE: Some properties of regions with proton and nonproton flares

SOURCE: Ref. zh. Fizika, Abs. 4Zh401

REF SOURCE: Izv. Krymsk. astrofiz. observ., v. 34, 1965, 3-8

TOPIC TAGS: solar flare, solar radio emission, proton, solar astronomy, sunspot

ABSTRACT: An attempt is made to find the distinguishing features of radio emission from active regions with proton flares. It is shown that in such regions the number of flares, accompanied by bursts of radio emission at centimeter wavelengths, is on the average 3-4 times larger than in regions without proton flares. For regions of both types, an eastward shift of the centers of condensation (at 21 cm wavelength) is observed relative to spots with the largest magnetic field in the group, but the shift turned out to be smaller over the regions with proton flares than over the regions without proton flares. The regions are practically identical with respect to the intensity of the slowly varying component of radio emission at wavelengths 9 and 21 cm. [Translation of abstract]

SUB CODE: 03, 20

Card 1/1 hs

YELISEYEV, G.G.

Natural vacuum filtration. G.G. Yeliseyev, *Zashchita*, Lab. 8, 111-12(1937).—An inverted funnel with filter is pressed against the rim of a cylinder containing liquid to be filtered and the cylinder and funnel are inverted; filtra-tion of any vol. of liquid then proceeds gradually without requiring any further attention. B. C. A.

ASM-ILA METALLURGICAL LITERATURE CLASSIFICATION

FROM STAINLESS STEEL TO HIGH SPEED STEEL

RELATIONS

PK 153T62

YELISEYEV, G. G.

USSR/Engineering - Welding
Generators, Electric

Nov 49

"The PSM-1000 Multistation Welding Converter,"
G. G. Yeliseyev, Engr, 1 1/2 pp

"Avtogen Delo" No 11

Converter weighing 1700 kg is described as compact, easy to install and transport. It includes type SG-1000, 60-kw generator, VDE-75-4 three-phase 75-kw induction motor, and control rheostats.

153T62

YELISEYEV, G.G., inzhener.

Efficient design of bearing units for unit-frame rotary converters
with speeds of 3,000 rpm. Vest.elektroprom.27 no.1:62-63 Ja '56.
(MLRA 9:6)

1.Zavod "Elektrik" Ministerstva elektromyshlennosti.
(Bearings (Machinery))

~~Y~~ELISEEV, G. I.

USSR.

Liars spectra of cosmic radiation at the sea level. A. I. Alkhanyov and G. I. Eliseev. *Zhur. Eksp. i Teor. Fiz.* 25, 304-78 (1953); cf. *C.A.* 48, 0236. — Description of an improved spectrograph and discussion of data obtained with it. A. P. Kotolov

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YELISEYEV, G. P.

PA 193T91

USSR/Nuclear Physics - Cosmic Rays

Sep 51

"Investigation of Mass Spectrum of Cosmic Ray
Particles at Sea Level," A. I. Alikhanov, G. P.
Yeliseyev

"Zhur Eksper i Teoret Fiz" Vol XXI, No 9, pp
1009-1022

Describes a new much improved mass spectrometer
for cosmic rays, which increases reliability of
trajectory detn and mass measurement. It was
applied to measurements of mass spectra of cosmic
ray particles at sea level. Submitted 3 Mar 51.

193T91

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TELISEYEV, G. P.

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1961

ON THE MASS SPECTRA OF COSMIC RAY PARTICLES AT
SEA LEVEL. A. L. Alikhanov and G. P. Elishev. Zhur.
Fizmat. i Teorot. Fiz. 25, No. 3, 368-38 (1953). (In Russian)

A magnetic mass spectrograph is described. The particle
momentum is fixed by five successive trays of counters and
the particle is brought to rest by laminar absorbers. The
apparatus allows resolution of the π and μ spectra. Measure-
ments show masses intermediate between π and μ proton
masses and a few masses greater than the latter. (Science
Abstracts)

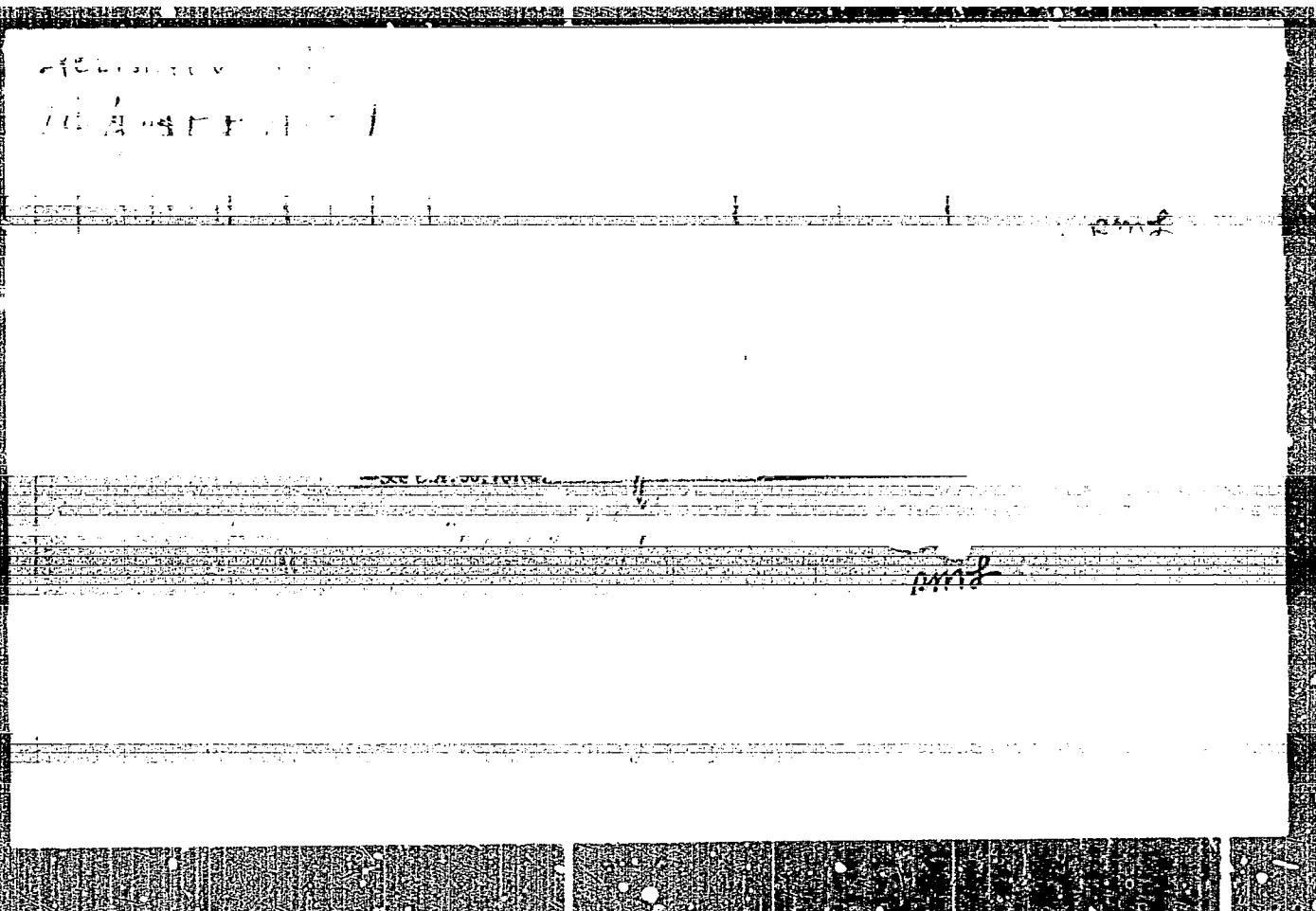
USSR.

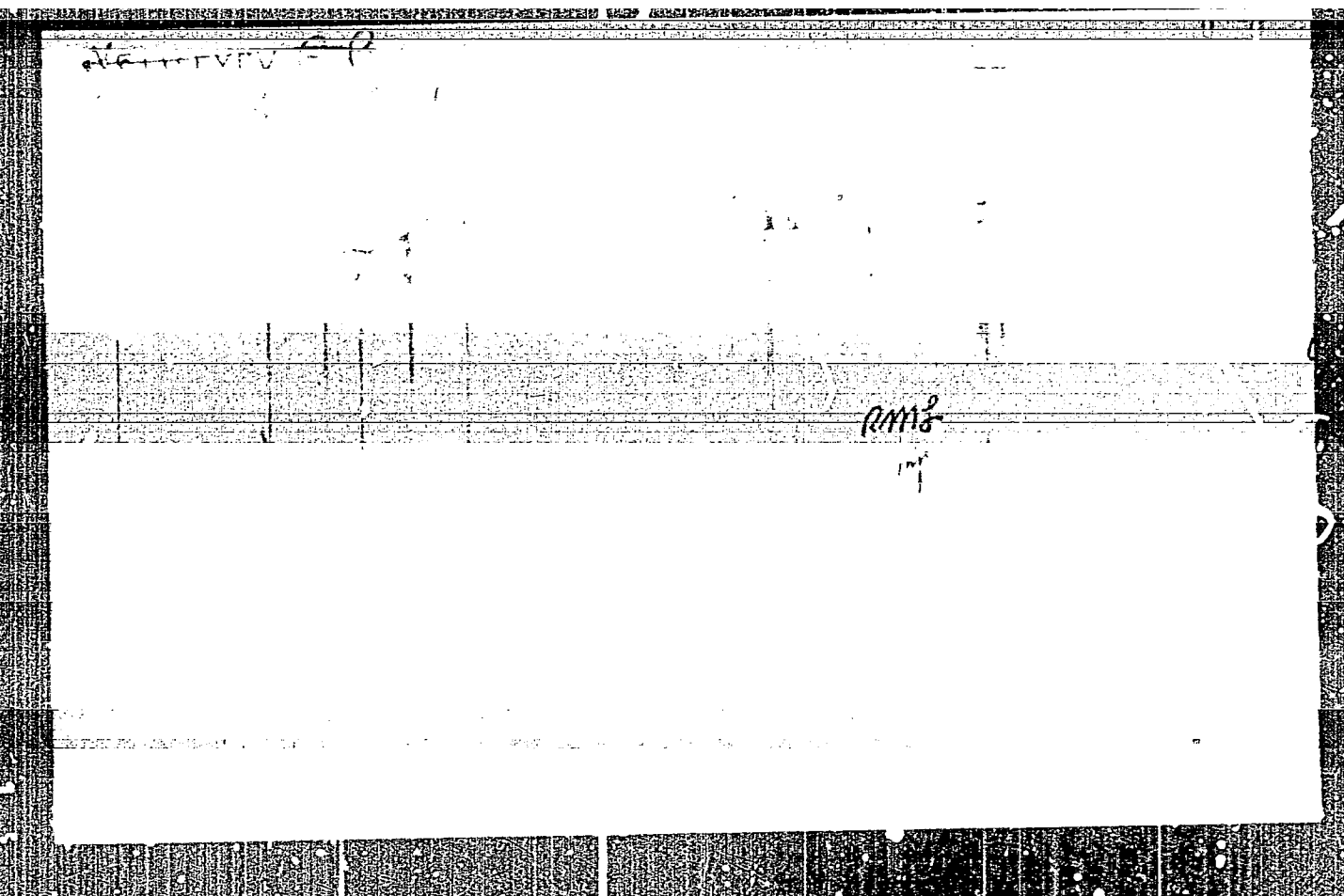
W. J. SWIATECKI

YELISEYEV, G. P.

"Devising a Magnetic Meter Mass Spectrometer and Investigating Cosmic Radiation at Sea Level." 2nd Phys-Math Sci, (no inst given) Acad Sci USSR, Moscow, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)





YELISEYEV, G.P.

YELISEYEV, G.P.

Dependence of the probable relation caused by someone
on their momentum. Y. A. L. Shchegolev, G. P. Eliseyev, V. V.

94

LYUBIMOV, V.A.; ~~YELISEYEV, G.P.~~; KOSMACHEVSKIY, V.K.

Investigation of cosmic rays at sea level with the aid of the mass-spectre-meter by measuring the impulse and ionizing capacity of individual particles. Izv.AN SSSR.Ser.fiz.19 no.6:720-731 N-D '55.
(MLRA 9:4)

1.Akademiya nauk SSSR.

(Cosmic rays) (Nuclear physics)

ALIKHANOV, A.I.; YMLISEYEV, G.P.

Anomalous scattering of μ -mesons in graphite. Izv. AN SSSR Ser. fiz.
19 no.6:732-736 N-D '55. (MLRA 9:4)

1. Akademiya nauk SSSR.
(Cosmic rays) (Nuclear physics)

LYUBIMOV, V.A.; YELISEYEV, G.P.; KOSMACHEVSKIY, V.K.; KOVDA, A.V.

Pulse dependence of the probability of ionization induced by μ -mesons. Izv. AN SSSR, Ser. fiz. 19 no. 6: 753-757 H-D '55.

(MIRA 9:4)

1. Akademiya nauk SSSR.

(Cosmic rays) (Nuclear physics)

YELISEYEV, G. P.

USSR/ Physics

Card 1/1 Pub. 22 - 11/49

Authors : Lyubimov, V. A., Eliseev, G. P., Kosmachovskiy, V. K. and Kovda, A. V.

Title : Probable ionization of μ^- -mesons in g.s in the impulse range between $2 \cdot 10^8$ and $1.2 \cdot 10^9$ *ark*

Periodical : Dok. AN SSSR 100/5, 883-886, Feb 11, 1955

Abstract : Experiments with relativistic μ^- -mesons are described. The experiments were conducted for the purpose of ascertaining the effect of the velocities of μ^- -mesons (of the energy range between $4 \cdot 10^8$ - $1.2 \cdot 10^9$ *ark*) on their ionizing characteristics. The experiments were conducted with the help of a 4-layer proportional counter and of a modern mass-spectrograph. Twelve references: 2 USA, 2 German, 3 British and 5 USSR (1932-1953). Graphs.

Institution :

Presented by: Academician A. A. Alikhanov, July 27, 1954

YELISEYEV, G. P.

USSR/ Physics - Cosmic radiation

Card 1/1 Pub. 22 - 14/49

Authors : Lyubimov, V. A.; Eliseev, G. P.; and Kosmachevskiy, V. K.

Title : Measuring the masses by impulse and ionization and the spectra of the impulses of various particles of cosmic radiation at sea level

Periodical : Dok. AN SSSR 102/1, 57-60, May 1, 1955

Abstract : A new method for measuring the masses of particles of cosmic radiation is described. Basically, the new method consists of measuring impulses of ionization produced by a cosmic radiation particle in the free mass of the 4-layer proportional counter inserted between the magnetic poles of the instrument. The complete spectra of nucleous-active particles were constructed with the help of this new method. Three USSR references (1951-1954). Tables; diagrams.

Institution :

Presented by : Academician A. I. Alikhanov, January 28, 1955

YELISEYEV, G. P.

USSR/Physics - π - mesons

Card 1/1 Pub. 22 - 15 '55

Authors : Lyubimov, V. A.; Eliseev, G. P.; and Kosmachevskiy, V. K.

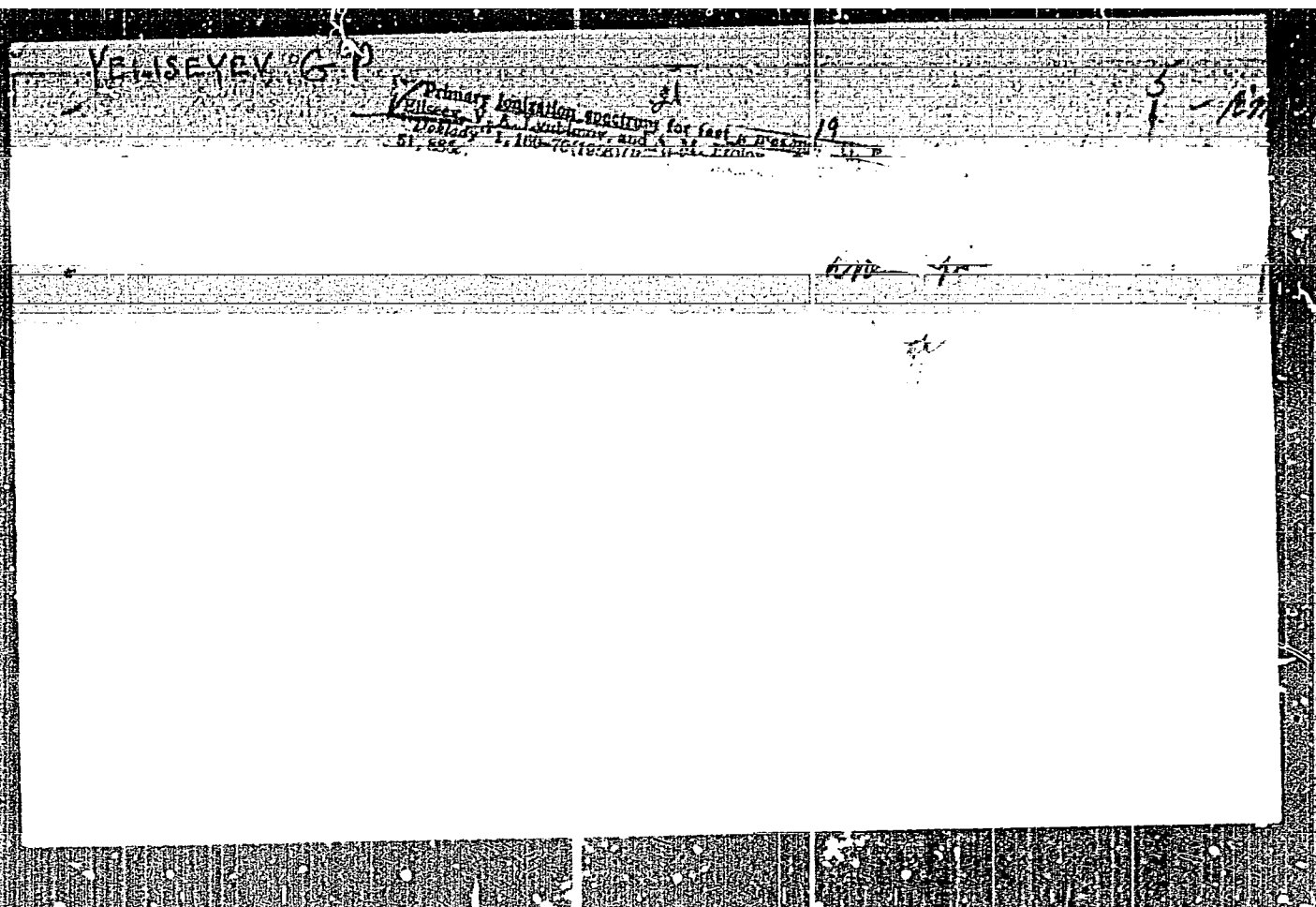
Title : Spectra of the π -Mesons under lead filters of various thicknesses at sea level

Periodical : Dok. AN SSSR 102/2, 249-251, May 11, 1955

Abstract : Experiments with π - mesons, conducted with the help of a spectrograph equipped with a 4-layer proportional counter, are described. The experiments were conducted to obtain π -meson spectra measuring the ionization and pulses of nuclear stops in the catching filters for which 2, 5, 10 and 40 cm lead films were used. Five references: 1 French and 4 USSR (1952-1955). Graphs.

Institution :

Presented by : Academician A. I. Alikhanov, January 28, 1955



YELISEYEV, G. P.

USSR/Nuclear Physics - Penetration of Charged and Neutral Particles Through Matter,
C-6

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34095

Author: Eliseyev, G. P., Lyubimov, V. A., Frclov, A. M.

Institution: None

Title: Spectrum of Primary Ionization of Rapid Mu-Mesons

Original Periodical: Dokl. AN SSSR, 1956, 107, No 2, 233-235

Abstract: With the aid of 2 10-layer low-efficiency counters, filled with a mixture of neon and commercial propane, investigation was made of the primary ionization of mu-mesons with momenta in the range 2×10^8 -- 3.4×10^{10} ev/sec. A total of 1,779 mu-mesons were recorded. All particles were broken up by momenta into 10 groups, for each of which the average momentum and ionization were determined. The results of the measurements agree qualitatively with the theoretically predicted logarithmic increase in the primary ionization and confirm the saturation of the primary ionization for mu-mesons with momenta greater than 10^{10} ev/sec, due to the effect of polarization of the medium. The method of processing the experimental data on the primary ionization used by the authors is described.

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YELISEYEV, G.P.
ALIKHANOV, A.I., ERSHLER, B.V., LYUBIMOV, V.A., YELISEYEV, G.P.

(Acad. Sci. USSR)

"Measurement of Longitudinal Polarization of Electrons."

paper submitted at the A-U Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 Nov 57.

YELISE'YEV, G.P., ALIKHANOV, LUBIMOV, V.A.

"High Precision Measurement of the Ionizing Power of Fast Charged
Particles with the Help of Multi-Layer Proportional Counters," paper
Presented at CERN Symposium, 1956, appearing in Nuclear Instruments, No. 1,
pp. 21-30, 1957

1/11/56, 10/11/56

AUTHOR

ALIKHANOV, A.I., YELISEYEV, G.P., LYUBIMOV, V.A.
ERSHLER, B.V.

56-6-12/56

TITLE

The Polarization of Electrons on the Occasion of β -Decay.
(Polyarizatsiya elektronov pri β -raspade- Russian)

PERIODICAL

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32 Nr 6, pp 1344-1349
(U.S.S. R.)

ABSTRACT

In connection with the checking of the law of conservation of parity, the authors carried out experiments concerning the discovery of a longitudinal polarization of electrons on the occasion of β -decay. For the determination of this polarization the effect of the azimuthal asymmetry was used; it occurs on the occasion of the simple scattering of electrons polarized vertical to the direction of motions through a large angle on a thin foil of a heavy element. The longitudinally polarized β -electrons were sent through an electric field crossed by a magnetic field. In these crossed fields a transversal polarization occurred in the electrons. The reasons why this method should be favored are given. The numerical parameters of the measuring device used here are given. Measurements were carried out in the energy domains of 300 keV. At an electric field strength of 18,3 keV/cm and a magnetic field strength of $H = 79$ Oe the spins were turned by the angle of $\varphi \sim 50^\circ$. The expected amount of the azimuthal asymmetry can be determined from the data given in a table. For the expected effect of azimuthal asymmetry in the plane which is vertical to the direction of spin the value $\delta_{\text{exp}} = 27,7\%$ is found.

Card 1/2

56-6-12/56
~~SECRET~~

The Polarization of Electrons on the Occasion of β -Decay.
Measuring results are given in a further table. They show that there is no asymmetry in the plane of the turn of the spin by $0^\circ - 180^\circ$. An asymmetry is observed in the plane $90^\circ - 270^\circ$, where the sign changes if the direction of the field is reversed. The sign of asymmetry is determined by the fact that on the occasion of β -decay the electrons are emitted with a spin directed against the motion of the electrons. For the degree of the polarization of the electrons on the occasion of β -decay the expression $B(17,4 \pm 2,6)/27,7 = (0,63 \pm 0,09)B$ is found. The experiments concerning the measuring of the polarization of electrons in the case of β -decay tend to show that parity is not conserved in the case of weak interaction and that the theory of the two-component neutrino suggested by Landau agrees with the experiment.
(4 tables).

ASSOCIATION	Not Given.
PRESENTED BY	
SUBMITTED	30.3.1957
AVAILABLE	Library of Congress.
Card 2/2	

YELISEYEV G.P.

INOPN ye.v.

307/53-65-4-7/13

Varshavskiy, D.

AUTHOR:

TITLE: The VIII Annual Congress of Nuclear Spectroscopy (VIII yezhgodnoye soveshchaniye po yadernoy spektroskopii). I

PERIODICAL: Dneprii fizicheskikh nauk, 1956, Vol. 65, Nr 4, pp. 721 - 712 (USSR)

ABSTRACT:

The 8th Congress of Nuclear Spectroscopy took place in Leningrad from January 27 to February 3, 1956. It was attended by 300 scientists from the USSR, further by scientists from China, France, Poland, Czechoslovakia, Hungary, Eastern Germany, Yugoslavia, and the Mongolian Democratic Republic. 4 main lectures and about 90 reports were heard. The main lectures dealt with problems concerning nuclear models, the α - and β -decay, γ -radiation, internal conversion, and nuclear isomerism. B.S. Dzhalapov, Corresponding Member, Academy of Sciences, USSR, opened the conference. Lectures were held by: V.Yu. Gonchar, Ye. V. Inopin, S.P. Pavlov (P.I.A. Thriss) on light nuclei and generalized nuclear models; A.K. Pavlov (M.V. SSSR Library AS USSR); Yu.A. Shkarev (Moscow State University), L.I. Illin (Leningrad State University, Leningrad Institute) et al. on levels in ^{82}Ge , ^{14}Mg , and ^{11}B .

Alkhanov, A.P. Grinberg, G.K. Gutsinskiy, K.I. Yerokhina and I. Kh. Leberberg (LRT) on having found no rotational levels at $X(1)$ MeV in Cr, In, and Mn nuclei. The same research workers also reported on the discovery of vibrational γ -levels in ^{102}Zr , ^{104}Zr , ^{106}Zr nuclei by means of the method of the Coulomb (Kulon) excitation at $E_{\alpha} \sim 1$ MeV. L.K. Fekker (M.V. SSSR) gave a survey report: "Concerning Some Particulars in Vibrational Levels of Deformed Nuclei". Lectures were held also by: D.P. Zaretzkiy (AS SSSR - AS USSR) on radiation transitions in deformed nuclei with the spin $\sim 1/2$ V.S. Shpinel' 2 MPEI MSU (and Scientific Research Institute of Physics, Moscow State University) on the level displacement and the probability of corresponding β^- and β^+ transitions in odd nuclei; D.P. Zaretzkiy (AS SSSR - AS USSR) on the influence of the spin-orbital coupling on the magnetic moments of the nuclei; A.I. Kuznetsov (M.V. SSSR) on the influence of the spin-orbital coupling on the magnetic moments of the nuclei; A.I. Kuznetsov (M.V. SSSR) on the formation of nucleus pairs in nuclei; L.I. Gol'din, A. V. Piliya, G.E. Novikova, K.A. Far-Zartirovskiy (RTI AS SSSR)

on alpha decay on rotational levels of odd nuclei; V.G. Zozor (AS SSSR - AS USSR) on alpha decay of nonspherical nuclei (survey); A.I. Alkhanov, G.P. Felisov, V.A. Tyablayev, V.V. Zhelezov (RTI AS SSSR) on polarization measurements of electrons emitted in the β -decay of ^{11}B , ^{11}C , ^{11}N , ^{11}O , ^{11}F , ^{11}Ne , ^{11}Na , ^{11}Mg , ^{11}Al , ^{11}Si , ^{11}P , ^{11}S , ^{11}Cl , ^{11}Ar , ^{11}K , ^{11}Ca , ^{11}Sc , ^{11}Ti , ^{11}V , ^{11}Cr , ^{11}Mn , ^{11}Fe , ^{11}Co , ^{11}Ni , ^{11}Cu , ^{11}Zn , ^{11}Ga , ^{11}Ge , ^{11}As , ^{11}Se , ^{11}Br , ^{11}Kr , ^{11}Xe , ^{11}Ba , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , ^{11}Ta , ^{11}W , ^{11}Re , ^{11}Os , ^{11}Ir , ^{11}Pt , ^{11}Au , ^{11}Hg , ^{11}Th , ^{11}Pa , ^{11}U , ^{11}Np , ^{11}Pu , ^{11}Am , ^{11}Cm , ^{11}Bk , ^{11}Cf , ^{11}Es , ^{11}Fm , ^{11}Md , ^{11}No , ^{11}Lr , ^{11}La , ^{11}Ce , ^{11}Pr , ^{11}Nd , ^{11}Pm , ^{11}Sm , ^{11}Eu , ^{11}Gd , ^{11}Ter , ^{11}Yb , ^{11}Lu , ^{11}Hf , 11

ALIKHANOV, A.I., YELISEYEV, G.P., LYUBIMOV, V.A., and ERSHLER, B.V.

"Polarization of Electrons Emitted in β -Decay,"
Nuclear Physics, Vol. 5, No. 4, 1958. (No. Holland Publ. Co., Amsterdam)

USSR Acad. Sci., Moscow

Abst: In connection with a reconsideration of the law of conservation of parity some experiments have been performed with the purpose of detecting longitudinal polarization of electrons emitted in β -decay. It was found that the spin of the emerging β -electrons is opposite to the direction of electron motion. The magnitude of the longitudinal polarization agrees with the theoretical value, v/c , v being the electron velocity.

YELISEYEV, G. P.

ALIKHANOV, A. I., YELISEYEV, G. P. and LYUBIMOV, V. A.

"Measurement of Longitudinal Polarization of Electrons Emitted in β -Decay"
Nuclear Physics, vol. 7, No. 6, p. 655-671, 1956. (No. Holland Publ. Co.)

USSR Academy of Sciences, Moscow.

Abstract: The Longitudinal Polarization of Coulomb - transition electrons has been measured for several electron energies. The polarization value was found to be equal to v/c for all the substances measured. It is proved that the most probable relationships among the coupling constants in β -decay are

$$C = -C'_{tm} \quad C_B = Y C_V \quad C_A \approx C'A.$$

AUTHORS: Alikhanov, A.I., Yeliseyev, G.P., 56-34-4-1/60
Lyubimov, V.A., Ershler, B.V.

TITLE: Electron Polarization in β -Decay (Polyarizatsiya elektronov pri β -raspade)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, Vol. 34, Nr 4, pp. 785 - 799 (USSR)

ABSTRACT: The authors reported already in a short communication (reference 1) on experiments in which a longitudinal polarization of the β -electrons was found. This work now describes more exactly these experiments and control measurements. The experimental arrangement consisted of a device for measuring the turning of the spin and of a device for the measurement of the intensity of the electrons, which were scattered through a wide angle, at various azimuthal angles between 0 and 360°. The apparatus for the turning of the spin consisted of an oblong electric capacitor which was in a metal vacuum tube. Then the authors shortly report on the accuracy of the measurement of the electric and of the magnetic

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field. The source of the β -electrons was laid upon a 10μ thick aluminium support as an even spot with a diameter of 1 cm. The source consisted of segregations from fraction solutions (oskolochnyy rastvor) of Sr^{90} with an admixture of Sr^{89} . The spectrum of the electron energies of such a source is plotted in a diagram. The thickness of the source plays an essential role in such measurements. That part of the device in which there were the scatterer of the electrons and the counters was separated from the capacitor by a thin colloidal film. For the computation of the expected effect of the azimuthal asymmetry the angle of rotation of the electron spin in crossed fields and the dependence of the azimuthal asymmetry on the scattering angle and on the energy of the polarized electrons must be known. A quite complicated term for $\sin \varphi$ is obtained, where φ means the angle of rotation of the spin. The amount of $\sin \varphi$ depends to quite a degree on the energy of the electron and this especially in the case of high energies. 3 tables illustrate the experimental results for 3 series of measurements at energies of ~ 300 keV and a fourth table

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gives the results for energies of ~ 750 keV. Various details are discussed. An asymmetry in the direction $0 - 180^\circ$ exists that changes its sign in the case of a change of the signs of the fields. Their mean value is $(14,5 \pm 8,5)\%$. In the direction $90 - 270^\circ$ the asymmetry is $(42,8 \pm 4,8)\%$. The data obtained on the polarization need a correction because of the multiple scattering at the scattering foils. The degree of polarization has at a mean energy of 300 keV resp. 750 keV with an accuracy of 15% resp. 40% the value $-v/c$. Finally the authors thank K.A. Ter-Martirosyan for the derivation of the formula of the spin rotation in the crossed fields; L. Ya. Suvorov, M. P. Anikina, and V. D. Laptev for the production of the strontium source; A. S. Kronrod for the computation of the light intensity of the device and M. Ye. Vishnevskiy for his useful data on the role of multiple scattering. There are 4 figures, 7 tables, and 12 references, 6 of which are Soviet.

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SOV/56-34-5-1/61

AUTHORS: Alikhanov, A. I., Telishev, G. P., Lyubimov, V. A.

TITLE: The Measurement of the Longitudinal Polarization of the
Electrons Emitted in β -Decay of Tm^{170} , Lu^{177} , Au^{198} , Sm^{153} ,
 Re^{186} , Sr^{90} and Y^{90} . II (Izmereniye prodol'noy polarizatsii
elektronov, ispuskayemykh pri β -raspade Tm^{170} , Lu^{177} , Au^{198} ,
 Sm^{153} , Re^{186} , Sr^{90} i Y^{90} . II)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol. 34, Nr 5, pp. 1045-1057 (USSR)

ABSTRACT: The authors try to measure, as precisely as possible, the
longitudinal polarization of electrons with various energies
for elements with Coulomb (Kulon) transitions, such as Tm^{170}
($J = 1; yes$), Re^{186} ($J = 1; yes$), Sm^{153} ($J = 1, 0; yes$),
 Au^{198} ($J = 0; yes$) and Lu^{177} ($J = 1; yes$) or ($J = 0; yes$).
These elements contain a mixture of Gamow (Gamov) - Teller
interactions and Fermi interactions. For the purpose of
comparison, the authors also carried out measurements at
 Sr^{90} and Y^{90} , which have "unical" transitions and a pure
Gamow (Gamov)-Teller interaction. The longitudinal polariza-

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The Measurement of the Longitudinal Polarization of the Electrons Emitted
in β -Decay of Tm^{170} , Lu^{177} , Au^{198} , Sm^{153} , Re^{186} , Sr^{90} and Y^{90} . 11

tion was measured according to the method of Mott-scattering, i.e. by determination of the azimuthal asymmetry in the single scattering of transversely polarized electrons by a scatterer with great Z into a great angle. The measuring device and the measuring method are discussed. The authors then discuss the calculation of the extrapolated value of the azimuthal asymmetry of single scattering and the calculation of the expected value of the azimuthal asymmetry of scattering. The results of the measurements discussed in this paper lead to the following conclusions:

1) The longitudinal polarizations of the electrons of all the investigated elements are equal, with an accuracy of 2 to 11 %. 2) For the average value with respect to all elements the longitudinal polarization of the electrons is equal to v/c with an accuracy of 3 %. 3) Within the range of from 100 to 600 keV the longitudinal polarization of the electrons of the Coulomb transitions does not depend on the energy (with an accuracy of $(4 \pm 7)\%$). A formula is given for the Coulomb transitions which are forbidden in the first order.

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The Measurement of the Longitudinal Polarization of the Electrons Emitted
in β -Decay of Tm^{170} , Lu^{177} , Au^{198} , Sm^{153} , Re^{186} , Sr^{90} and Y^{90} . II

There are 6 figures, 2 tables, and 9 references, 5 of which
are Soviet.

ASSOCIATION: Akademiya nauk SSSR (AS USSR)

SUBMITTED: December 12, 1957

1. Electrons--Polarization measurement 2. Electrons--Sources
3. Beta decay 4. Chemical elements--Properties 5. Mathematics--
Applications

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21(8)

AUTHORS:

SOV/56-35-4-50/52
Alikhanov, A. I., Yeliseyev, G. P., Lyubimov, V. A.

TITLE:

The Polarization of the Electrons of RaE and Time-Parity
(Polyarizatsiya elektronov RaE i vremennaya chetnost')

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,
Vol 35, Nr 4, pp 1061-1062 (USSR)

ABSTRACT:

In an earlier paper (Ref 1) the authors showed that the longitudinal electron polarization in β -decay acts of heavy nuclei (which corresponds to transitions forbidden in the first order, i.e. the so-called Coulomb (Kulon) transitions ($\Delta J \neq 2$) and the unical transitions ($\Delta J = 2, j_a$)) is equal to v/c with 5% accuracy and is independent of electron energy. However, in one case (RaE) an anomaly in the shape of the β -spectrum is observed in spite of the Coulomb transition ($1^- \rightarrow 0^+$). By employing a method already described (Ref 1) the authors determined the longitudinal electron polarization at the medium energies $E = 125$ and 390 keV. The Ra(D+E)-source with an intensity of 5 m Cu had a thickness of about 0.8 mg/cm^2 . With $E = 125$ and 390 keV the longitudinal polarization $-\langle \sigma \rangle c/v$

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The Polarization of the Electron of RaE and Time-Parity

of the electrons amounted to 0.733 ± 0.06 and 0.725 ± 0.06 (mean value 0.73 ± 0.04). B. B. Geshkenbeyn, S. A. Hemirovskaya and A. P. Rudik calculated the longitudinal electron polarization of RaE for the VA- and ST-variants in consideration of the non-conservation of spatial parity, but with conservation of parity with respect to time (but also for the case of the non-conservation of time-parity). The disturbance of time-parity is less than 7.5%. This is the most accurate estimate of the conservation of parity with respect to time that has hitherto been made. Possibilities of a further improvement of this estimation are pointed out in short. There are 8 references, 2 of which are Soviet.

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24(7)

AUTHORS:

Alikhanov, A. I., Yeliseyev, G. P., SOV/56-36-2-9/63
Kamalyan, V. Sh., Lyubimov, V. A., Moiseyev, D. N., Khrimyan, A. V.

TITLE:

Investigation of the Nature and the Spectra of Particles
Produced by High Energy Nucleons (Issledovaniye prirody i
spektrov chastits, generirovannykh nuklonami vysokoy energii)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 36, Nr 2, pp 404-410 (USSR)

ABSTRACT:

In the present paper the authors publish the results obtained by the investigation of particles which were produced by high-energy nucleons of cosmic radiation at an altitude of 3200 m above sea level. Investigations were carried out on Mount Aragats in Armenia. The experimental device used is shown by figure 1 in form of 2 sections which are vertical to each other. The device, in principle, consists of a mass spectrometer (6850 Oe), an additional hodoscope arrangement, and a five-layer thin-walled proportionality counter. Two series of measurements were carried out: with generators (10 and 25 cm lead) and control tests "without generators" (0.3 - 2 cm lead total substance thickness). Measuring results can be divided into 2 groups:
a) particles produced in the generators by neutral radiation,

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and the Spectra of Particles Produced by High Energy Nucleons

b) particles of stars produced by charged particles and single charged particles. Muons were excluded by means of the momentum-range method. Figures 1a,b show the results of momentum- and ionization measurements of secondary particles under 25 cm of lead of groups a) and b). Sufficient data could be obtained from the experimental material concerning secondary protons and partly also concerning deuterons. In 2 series of measurements carried out in the momentum range of 400-900 Mev/c 35 deuterons were observed, 10 of which had been produced by protons. Thus, cosmic radiation in an altitude of 3250 m had 3.5 times as many neutrons as protons. The momentum spectrum of deuterons in the "generatorless" tests with momenta >800 Mev/c had the form

$N(p) \sim p^{-\gamma}$, ($\gamma \approx 2$). Figure 3 shows the differential momentum spectrum of π^- -mesons which had been produced by neutrons, viz. measurements of shower-mesons and of single mesons (momenta: 400 - 7000 Mev/c); the course corresponds to $N(p) \sim p^{-\gamma}$, where γ for the shower 1.7 for single π^- -mesons is equal to 2.4. Khrimyan and Asatiani (Ref 4) found $\gamma = 1.5$ for the π^- -meson spectrum (shower), but they investigated the π^- -meson production by protons.

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SOV/56-36-2-9/63

In the momentum range of 125-700 Mev/c the mean value 89/45 was obtained for N_{π^-}/N_{π^+} as a result of neutron action, and for stars produced by protons $N_{\pi^-}/N_{\pi^+} = 45/54$ was obtained. In figure 2 the mass distribution of the recorded particles is represented in the momentum range of 125-720 Mev/c (ionization 1.3 - 7I_{min}) separately for single particles produced by neutrons and for multiple stars produced by neutrons. Particles with a mass 700-1300 m_e were determined as amounting to 10% (measured according to the proton number). As regards the K-mesons determined, it may be seen from table 1, which gives a detailed account of all measuring results, that $N_{K^+}/N_{K^-} = 16/3$, and that in consideration of the producing particles, it holds that $N_{K^+}(p)/N_{K^+}(n) = 14/5$. Finally, a large number of investigation results concerning π^- and K-mesons in the momentum range of 720-900 Mev/c is given. The authors in conclusion thank Professor A. I. Alikharyan for his interest and discussions,

Card 3/4

Investigation of the Nature
and the Spectra of Particles Produced by High Energy Nucleons

SOV/56-36-2-9/63

and they express their gratitude to V. K. Kosmachevskiy,
I. P. Karabekyan, V. P. Kanavets and V. V. Avakyan for their
great help in organizing and carrying out the work.
There are 4 figures, 2 tables, and 6 references, 4 of which are
Soviet.

SUBMITTED: August 20, 1958

Card 4/4

85706

S/056/60/038/006/049/049/XX
B006/B070

24.6900 (1138, 1191, 1559)

AUTHORS:

Alikhanov, A. I., Galaktionov, Yu. V., Gorodkov, Yu. V.,
Yeliseyev, G. P., Lyubimov, V. A.

TITLE:

Measurement of the Chirality of the μ -Meson 19

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 6, pp. 1918 - 1920

TEXT: The muon chirality was measured by the authors of the present "Letter to the Editor" by a method described in Ref.1. The method is based on the measurement of the scattering cross sections of polarized muons from polarized electrons. This cross section depends on the mutual orientation of the spins of the colliding particles. An independent measurement of the number of δ showers was made, the showers being released by cosmic muons in magnetized iron and consisting of two or more particles. The experimental arrangement is shown in a Fig. and described in the text. About 500 muons pass through the apparatus every minute, one or two of these produce showers with $m \geq 3$. Up to now 116,000 showers with $m \geq 3$ have been recorded. The energies of the shower-producing muons were

Card 1/2

85706

Measurement of the Chirality of the μ -Meson S/056/60/038/006/049/049/KX
B006/B070

between 3 and 6.5 Bev. The following results were obtained from the experiments. For μ^+ mesons, the difference in the number of showers for two different directions of the current in the winding of the triangle (Fig.) gives the effect $s_+ = -0.37 \pm 0.41$; ($s = (N_+ - N_-)/(N_+ + N_-)$); for μ^- mesons, $s_- = +0.82 \pm 0.42$. For both signs of the charges of the muon the effect is given by $s_{\pm} = 0.58 \pm 0.29$. The theoretical value for a 50% polarization of the muon is 0.6. The sign of the effect corresponds to weak V-A interaction (according to which the spin of the muon is directed opposite to its momentum), that is, to a left-hand chirality of the μ^+ meson. The probability for the effect to be zero or negative is $2 \cdot 10^{-2}$. The experiments are being continued to improve the statistical accuracy. There are 1 figure and 2 Soviet references.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Akademii nauk SSSR (Institute of Theoretical and Experimental Physics of the Academy of Sciences USSR)

SUBMITTED: April 25, 1960

Card 2/2

S/056/60/039/003/008/045
B004/B060

AUTHORS: Alikhanov, A. I., Yeliseyev, G. P., Lyubimov, V. A.
TITLE: Longitudinal Polarization of Beta Electrons¹ From Au¹⁹⁸ ✓
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 3 (9), pp. 587-588

TEXT: The authors measured the polarization of Au¹⁹⁸ electrons by means of an apparatus resembling the one described in Ref. 4, but improved in order to work with a beta source exhibiting a strong gamma background. ✓
The measurements were made in the ranges of 145 kev and 390 kev. Equal Au¹⁹⁸ and Tm¹⁷⁰ samples served as sources. The corrections for the two samples were mutually compensating. At 145 kev, the longitudinal polarization of Au¹⁹⁸ beta electrons was $P_{Au}/P_{Tm} = 0.80 \pm 0.05$ relative to Tm¹⁷⁰, and was thus smaller than $-v/c$. Comparable values were obtained by P. Ye. Spivak and L. A. Mikaelyan (Ref. 7). At 390 kev, $P_{Au}/P_{Tm} = 1.07 \pm 0.08$. A paper by B. V. Geshkenbeyn and A. P. Rudik is referred to as containing an explanation of the deviation from $-v/c$ at low energies.

Card 1/2

Longitudinal Polarization of Beta
Electrons From Au¹⁹⁸

S/056/60/039/003/008/045
B004/B060

In the case of heavy nuclei, polarization for first forbidden transitions is to be expected to deviate from $-v/c$ in that region of the beta spectrum where there is a deviation from the Fermi shape. There are 9 references: 6 Soviet, 5 US, and 1 Dutch.

SUBMITTED: April 30, 1960

Card 2/2

5

L 65207-65 EWT(m)/T/EWA(m)-2

ACCESSION NR: AP5021735

UR/6386/65/002/002/00295/0094

AUTHOR: Alikhanov, A. I.; Bayatyan, G. L.; Brakhsan, E. V.; Galaktionov, Yu. V.;
Yeliserev, G. P.; Yech, F. A.; Zel'dovich, O. Ya.; Landsberg, L. G.; Lyubimov, V.
A.; Sidorov, I. V.

TITLE: Elastic backward scattering of π -mesons by neutrons in the 1.4-4.0 Bev/c
pulse range

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, Pis'ma v redaktsiyu,
Prilozheniye, v. 2, no. 2, 1965, 90-94

TOPIC TAGS: pi meson, particle scatter, neutron scattering

ABSTRACT: The elastic backward scattering reaction $\pi^+n \rightarrow \pi^+n$ is studied in the
1.4-4.0 Bev/c pulse range. 1700 events of this reaction were selected with a pion
scattering angle of $>90^\circ$. The solid angles for these events were measured (the
of measurement in the horizontal plane was 1° and in the vertical plane $\sim 5^\circ$). The
results are given in graphic and tabular form. Orig. art. has: 3 figures, 1 table.

ASSOCIATION: none

Card 1/2

L 65207-65

ACCESSION NR: AP5021735

SUBMITTED: 02JUN65

ENCL: 00

SUB CODE: RP

NO REF SOV: 000

OTHER: 000

Card 2/2

YELISEYEV, I.

USSR/Soil Science. Tillage. Molieration. Erosion

J-5

Abstr Jour : Ref Zhur - Biol., No 10, 1958, No 43885

Author : Yeliseyev, I., Dmitriyov V.

Inst : Not Given

Title : The Estuary Irrigation of Corn in Zavolzh'ye

Orig Pub : Kukuruzr, 1956, No 9, 17-25

Abstract : Under the conditions prevalent at the Korgachevskaya Machine and Tractor Station in Saratovskaya Oblast' (where the annual precipitation is 250-360 mm.), estuary irrigation on chestnut and light chestnut soils increased the green mass yield of corn by 250 centners per ha. The methods of constructing these estuaries are discussed. --F.N. Sofiyeva

Ord : 1/1

KULIKOV, N, starshiy mekhanik; YELISEYEV, I., tekhar'.

Repair of "ZIS-5" engines in a harbor workshop. Mer.flet. 7
no.7:48 J1 '47. (MLRA 9:6)
(Latvia--Harbors) (Gas and oil engines)

YELISEYEV, I.

Switching meat plants to a seven-hour workday. Mias. ind. SSSR
no.2:6-10 '57. (MLRA 10:5)

1. Ministerstvo promyshlennosti myasnykh i molochnykh produktov
SSSR.
(Hours of labor)

YELISEYEV, I., KUZNETSOV, V.

Labor productivity during the 6-hour day. Sots.trud 4 no.7:
104-107 J1 '60. (MIRA 13:8)

1. Direktor Severoural'skikh boksitovykh rudnikov (for Yeliseyev).
 2. Nachal'nik otdela truda i zarabotnoy platy Severoural'skikh boksitovykh rudnikov (for Kuznetsov).
- 'Hours of labor) 'Labor productivity)

YELISEYEV, I.

Experience of the Riga Meat Combine ("Establishing production standards and wages according to output in the sausage industry" by L.Levina, A.Dobronog, F.Rakovskaia. Reviewed by I.Eliseev).
Mias.ind.SSSR 32 no.2:51-52 '61. (MIRA 14:7)
(Riga—Sausages) (Wages and labor productivity)
(Levina, L.) (Dobronog, A.) (Rakovskaia, F.)

NIKOLAYEV, Viktor Arsen'yovich; DOLIVO-DOBROVOL'SKIY, Vladimir Vital'ye-
vich; YELISEYEV, I.A., red.; GOROKHOVA, T.A., red. izd-va; GURO-
VA, O.A., tekhn. red.

[Fundamentals of the theory of processes of magmatic activity and
metamorphism] Osnovy teorii protsessov magmatizma i metamorfizma.
Moskva, Gos.nauchno-tekhn.izd-vo: lit-ry po geologii i okhrane nedr,
1961. 337 p. (MIRA 14:12)
(Magma) (Metamorphism (Geology))

DENISENKO, K.; YELISEYEV, I.

Improve the system of bonus payments to engineers and technicians.
Mias.ind. SSSR 34 no.1:47-50 '63. (MIRA 16:4)

1. Moskovskiy gorodskoy sovet narodnogo khozyaystva.
(Wages—Meat industry) (Incentives in industry)

KULAKOV, D.V.; OCHKIN, F.V.; KARPOVA, V.V.; SIMAKINA, N.V.; YAGUDIN, Z.Kh.; GREBENSHCHIKOVA, N.F.; CHEREMUSHKINA, V.M.; YELISEYEV, I.A.; CHERVYAKOVA, A.P.; BEREZOV, A.A.; PEDOTOVA, A.I.; SILKINA, I.V.; NOVIKOVA, V.P.; TANOVA, V.P.; NESVETAYEVA, G.M.; ADSKAYA, V.M.; DRYUCHIN, A.P., *otv. red.*; KONDRASHOVA, V.I., *tekhn. red.*

[Economy of Saratov Province in 1960; collected statistics] Narodnoe khoziaistvo Saratovskoi oblasti v 1960 godu; statisticheskii sbornik. Saratov, Gos.stat.izd-vo, 1962. 325 p. (MIRA 15:9)

1. Saratov(Province)Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Saratovskoy oblasti (for Dryuchin).
(Saratov Province--Statistics)

YELISEYEV, I.D.

LEVCHENKO, G.I., admiral, otvetstvennyy red.; DEMIN, I.A., dots., kand. geogr. nauk, inzh.-kontr-admiral, glavnyy red.; FRUMKIN, N.S., polkovnik, zamestitel' otvetstvennogo red.; ABAN'KIN, P.S., admiral, red.; ALAFUZOV, V.A., prof., kand. voenno-morskikh nauk, admiral, red.; ANAN'ICH, V.Ye., kontr admiral zapasa, red.; ACHKASOV, V.I., kand. istor. nauk, kapitan 1 ranga, red.; BARANOV, A.N., red.; BELLII, V.A., prof., kontr-admiral v otstavke, red.; BESHKROVNIY, L.G., prof., doktor istor. nauk, polkovnik zapasa, red.; BOLTIN, Ye.A., kand. voen. nauk, general-mayor, red.; VERSHININ, D.A., kapitan 1 ranga, red.; VITVER, I.A., prof., doktor geogr. nauk, red.; GML'FOND, G.M., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; GLINKOV, Ye.G., inzh.-kontr-admiral v otstavke, red.; YELISEYEV, I.D., vitse-admiral, red.; ZOZULYA, F.V., admiral, red.; ISAKOV, I.S., prof., Admiral Flota Sovetskogo Soyuza, red.; KAVRAYSKIY, V.V. [deceased], prof., doktor fiz.-mat. nauk, inzh.-kontr-admiral v otstavke, red.; KALBSNIK, S.V., red.; KOZLOV, I.A., dots. kand. voenno-morskikh nauk, kapitan 1 ranga, red.; KOMAROV, A.V., vitse-admiral, red.; KUDRYAVTSEV, M.K., general leytenant tekhnicheskikh voysk, red.; LYUSHKOVSKIY, M.V., dots., kand. istor. nauk, polkovnik, red.; MAKSIMOV, S.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; OKUN', S.B., prof., doktor istor. nauk, red.; ORLOV, B.P., prof., doktor geogr. nauk, red.; PAVLOVICH, N.B., prof., kontr-admiral v otstavke, red.; PANTELEYEV, Yu.A., admiral, red.; PITERSKIY, N.A., kand. voenno-morskikh nauk, kontr-admiral, red.; PLATONOV, S.P., general-leytenant, red.; POZNYAK, V.G., dots., general leytenant, red.; SALISHCHIN, K.A., prof., doktor tekhn. nauk,

(Continued on next card)

LEVCHENKO, G.I.---(continued) Card 2.

red.; SIDOROV, A.L., prof., doktor istor. nauk., red.; SKORODUMOV, L.A., kontr-admiral, red.; SHEZHINSKIY, V.A., prof., doktor voenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SOLOV'YEV, I.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; STALBO, K.A., kontr-admiral, red.; STEPANOV, G.A. [deceased], dots., vitse-admiral, red.; TOMASHEVICH, A.V., prof., doktor voenno-morskikh nauk, kontr-admiral v otstavke, red.; TRIBUTS, V.F., kand. voenno-morskikh nauk, admiral, red.; CHERNYSHOV, F.I., kontr-admiral, red.; SHVETS, Ye.Ye., prof., doktor voenno-morskikh nauk, kontr-admiral, red.; CHURBAKOV, A.I., tekhn. red.; VASIL'YEVA, Z.P., tekhn. red.; VIZIROVA, G.N., tekhn. red.; GOROKHOV, V.I., tekhn. red.; GRIN'KO, A.M., tekhn. red.; KUBLIKOVA, M.M., tekhn. red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn. red.; CHERNOGOROVA, L.P., tekhn. red.; GUREVICH, I.V., tekhn. red.; BUKHANOVA, N.I., tekhn. red.; NIKOLAYEVA, I.N., tekhn. red.; RADOVIL'SKAYA, E.O., tekhn. red.; TIKHOMIROVA, A.S., tekhn. red.; BELOCHKIN, P.D., tekhn. red.; LOYKO, V.I., tekhn. red.; ROMANYUK, I.G., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.

[Sea atlas] Morskoi atlas. Otv. red. G.I. Levchenko. Glav. red. L.A. Demin. [Moskva] Izd. Glav. shtaba Voennno-morskogo flota. Vol.3. [Military and historical. Pt.1. Pages 1-45] Voennno-istoricheskii. Zamestitel' otv. red. po III tomu N.S. Frankin. Pt.1. Listy 1-45. 1958. — [Military and historical maps, pages 46-52] (Continued on next card)

LEVCHENKO, G.I.---(continued) Card 3.

Voenno-isto:icheskie karty, listy 46-52. 1957.

(MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. 2. Nachal'nik
Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh
del SSSR (for Baranov). 3. Chlen-korrespondent Akademii nauk SSSR
(for Kalasnik). 4. Deystvitel'nyy chlen Akademii pedagogicheskikh
nauk RSFSR (for Orlov).

(Ocean--Maps)

80V/84-58-12-23/54

AUTHOR: Yelisseyev, I.D., Commander

TITLE: Two Proposals (Dva predlozheniya)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 12, p 14 (USSR)

ABSTRACT: The author, who had the day before returned from the Shkola vysshey letnoy podgotovki (School for Advanced Air Training), expected to be soon making regular flights in the Il-18 on all the major air routes on all the major airlines. He supported the views expressed by Yu. V. Barkhash on raising the efficiency at airfields, improving cooperation between aviation units, increasing freight loadings, and establishing more precise communications between air and ground crews.

Card 1/1

SHNITSER, Solomon Solomonovich; YELISEYEV, I.D., inzh., retsenzent;
NOVIKOV, V.G., inzh., spets. red.; KORBUT, L.V., red.;
SOKOLOVA, I.A., tekhn. red.

[Potentials for increasing labor productivity in the meat
industry] Rezervy rosta proizvoditel'nosti truda v miasnoi
promyshlennosti. Moskva, Pishchepromizdat, 1963. 193 p.
(MIRA 17:4)

YELISEYEV, I. G., Cand Agr Sci -- (diss) "Effectiveness of varied differentiation of the protein level in the ration of swine during the fattening period." Moscow, 1960. 18 pp; (All-Union Order of Lenin Academy of Agricultural Sciences in V. I. Lenin, All-Union Scientific Research Inst of Animal Husbandry, Division of the Feeding of Agricultural Animals); 150 copies; price not given; (KL, 17-60, 162)

YELISEYEV, I. K.

YELISEYEV, I. K. -- "The Minimum Composition of a Series of Standard Designs of Dwelling Houses (On the Example of Standard Planning in the Belorussian SSR)." Min Higher Education USSR. Belorussian Polytechnic Inst imeni I. V. Stalin. Chair of Architecture. Minsk, 1955. (Dissertation for the Degree of Candidate in Architectural Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

MAKLETSOVA, N.M.; BELOGORTSEV, I.D.; VARAKSIN, V.M.; YELISEYEV, I.K.;
ZYSMAN, A.I.; VOINOV, A.P., prof., retsenezent; CHECHKO, E.I.,
red.; KUZ'MENOK, P.T., tekhn.red.

[Principles of designing apartment houses] Osnovy proektirovaniia
zhilykh zdani. Minsk, Izd.-izdat.otdel, Belorusskogo politekhn.
in-ta im. I.V.Stalina, 1960. 194 p. (MIRA 13:8)

1. Minsk. Belorusskiy politekhnicheskii institut. 2. Deystvitel'-
nyy chlen Akademii stroitel'stva i arkhitektury SSSR i chlen-
korrespondent Akademii nauk SSSR (for Voinov).

(Apartment houses)
(Architecture--Designs and plans)

YELISEYEV, I.P.

Acclimatization of Ussurian plum in Gorkiy Province. Agrobiologia
no.4:623-626 JI-Ag '63. (MIRA 16:9)

1. Gor'kovskiy sel'skokhozyaystvennyy institut.
(Gorkiy Province--Plum)
(Gorkiy Province--Acclimatization(Plants))

YELISEYEV, I.P.

Introduction and acclimatization of the cherry *Cerasus tomentosa*
(Thunb.) Wall. in Gorkiy Province, Biol.Glav.bot.sada no. 48:
17-24 '63. (MIRA 17:5)

1. Sel'skokhozyaystvennyy institut, Gor'kiy.

YELISEYEV, I.S., mashinist

Useful suggestion of the efficiency experts. Elek. i tepl.
tiaga 5 no.6:17 Je '61. (MIRA 14:10)

1. Depo Likhobory.
(Diesel locomotives—Equipment and supplies)

YELISEYEV, I. S. B-7-5

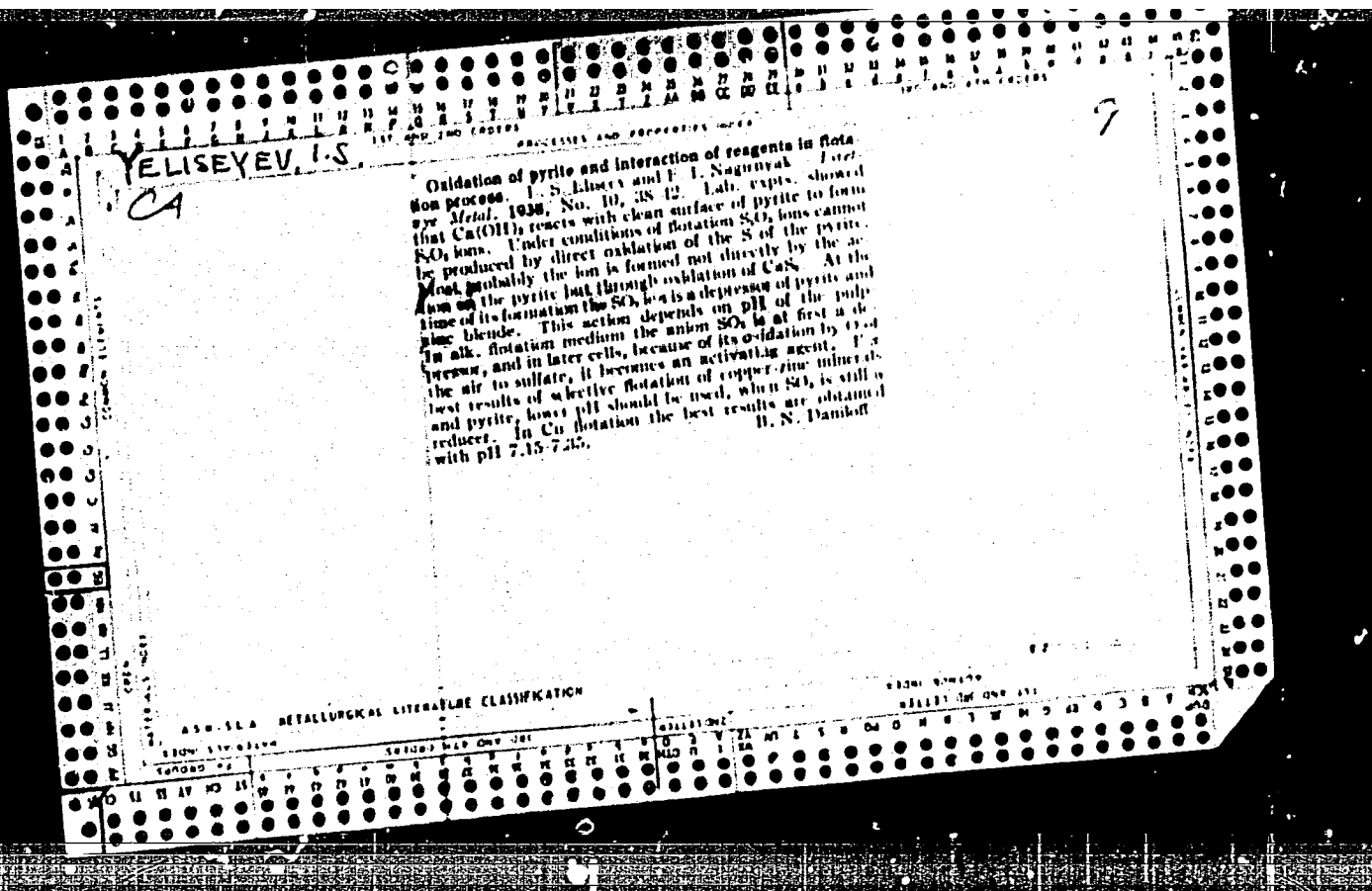
Processes and Properties Index

Flotation of pyrite tailings from Karabach concentration plant. S. I. Mirzoyanov and I. S. Eliseyev (Trav. Metal., 1934, No. 8, 57-63).—Cu pyrite tailings (4-5 kg. of CuO per ton of solid) were treated with, and without, addition of H_2SO_4 to the thickened or non-thickened tailings. The best method is applicable when the medium is highly basic. The H_2SO_4 used depends on the CuO (0.5-6.5 kg. per ton for non-thickened, and 0.3-0.8 kg. per ton for thickened, tailings). On. Ana. (c)

ASB-SLA BIBLIOGRAPHICAL LITERATURE CLASSIFICATION

FROM 570-83200

100000 01 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



BIBINA, I.A.; VETRENKO, Ye.A.; DIYEV, N.P.; YELISEYEV, I.S.; KLUSHIN, D.N.;
KUSAKIN, P.S.

Speeding up the bessemer process of converting copper matte by
oxygen-enriched air. TSvet. met. 29 no 7:10-17 J1 '56. (MLRA 9:10)

(Copper--Metallurgy) (Bessemer process)

YELISEYEV, I.S.

137-58-4-6763

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 66 (USSR)

AUTHORS: Mironov, M.G., Yeliseyev, I.S., Mel'nikov, A.G.,
Kroneberg, D.A., Sereda, B.K., Ustalov, V.A.

TITLE: Forty Years of Copper Industry in the Ural Region (Sorok let
mednoy promyshlennosti Urala)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 19-20, pp 55-60

ABSTRACT: Bibliographic entry

1. Copper industry--USSR

Card 1/1

YELISEYEV, I.S.

Results achieved and tasks ahead for the Institute. Trudy Unipromedi
no.2:3-8 '57. (MIRA 11:11)

1. Direktor nauchno-issledovatel'skogo i proyektного instituta
mednoy promyshlennosti.
(Nonferrous metals)

DIYEV, N.P. [deceased]; YELISEYEV, I.S.; KOCHNEV, M.I.; PADUCHEV, V.V.;
VERMENICHEV, S.A.; SARKISOV, I.I.; MAL'TSEV, B.V.; KUSAKIN, P.S.

Use of oxygen in bessemerizing copper mattes in industrial
converters. Trudy Inst.met. UPAN SSSR no.3:93-101 '59.
(MIRA 13:4)

(Copper--Metallurgy)

(Oxygen--Industrial applications)

YELISEYEV, I.S.

Basic trends in the development of the copper industry in
the Urals. TSvet. met. 37 no.11:1-6 N '64. (MIRA 18:4)

YELISEYEV, I.V., Geroy Sotsialisticheskogo Truda

Severoural'sk bauxite mines. Gor. zhur. no.10:14-15 0
'61. (MIRA 15:2)

1. Direktor Severoural'skikh boksitovykh rudnikov.
(Severoural'sk Region--Bauxite)

1. YELISEYEV, K. M.
2. USSR (600)
4. Scabies
7. Ear mange in silver fox and methods for controlling it. Kar. i zver. 5 no. 5, '52.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

YELISEYEV, K.M.

YELISEYEV, K.M.: "Material on strongyloidoses of sheep". Alma-Ata, 1955. Min Higher Education USSR. Alma-Ata Zooveterinary Inst. (Dissertations for the Degree of Candidate of Veterinary Sciences).

SO: Knizhnaya letopis' No 45, 5 November 1955. Moscow.

USSR/Zooparasitology - Parasitic Worms.

G

Abs Jour : Ref Zhur Biol., No 1, 1959, 953

Author : Yeliseyev, K.M.

Inst : Alma-Ata Zooveterinary Institute

Title : Data on Strongyloidiasis of Sheep

Orig Pub : Tr. Alma-Atinsk. zoovet. in-ta, 1956, 9, 169-185

Abstract : At a temperature of -18 degrees up to 97% of the eggs (E) of *Strongyloides papillosus* perished in 20 days. Drying under summer conditions at 24 - 25 degrees brought about the death of E after 1 - 1½ hours. A 1% solution of formalin, 3% solution of creolin, and a 3 - 5% solution of carbolic acid killed E of *S. papillosus* after ½ - 1½ hours. At 65 - 75 degrees the E were killed after 10 - 15 minutes. Rhabdite-like larvae (RL) were killed at -6 degrees after 3 - 4 hours, under the influence

Card 1/3

- 14 -

USSR/Zooparasitology - Parasitic Worms.

G

Abs Jour : Ref Zhur Biol., No 1, 1959, 953

of direct sun rays in the summertime - after 25 - 30 minutes; the above-mentioned disinfecting substances killed RL after 5 - 10 minutes. The filarial larvae were more resistant to physical and chemical factors: they could live in sheep faces for 2 - 3 months and preserve their infecting powers. The usual disinfecting agents, biothermal treatment of manure, and the effect of direct sun rays in summer and freezing in winter safely decontaminated the larvae. At a temperature higher than 20 degrees a larger number of RL developed into males and females of a free-living generation in 4 - 5 days. Free-living males and females did not develop from the filarial larvae in the experiment. At a temperature below 18 degrees and higher than 35 degrees the females did not produce E or larvae, and a larger number of them died. *S. papillosus* first appeared in lambs 20 days-old; 100% contamination by these parasites was

Card 2/3

USSR/Zooparasitology - Parasitic Worms.

G

Abs Jour : Ref Zhur Biol., No 1, 1959, 953

already registered in month-old lambs; the intensity of the invasion increased up to 3 months of age. The highest intensity of contamination of sheep was observed in March and April, and in the summer and fall periods it was decreased 7 - 10-fold or more. -- N.V. Demilov

Card 3/3

- 15 -

VELISEYEV, K.M.

USSR/Diseases in Farm Animals. Diseases Caused by Arachno-
Entoms.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54956.

Author : Musina, F. Kh., Veliseyev, K. M.

Inst : Alma-Ata Institute of Zoology and Veterinary Sciences.

Title : On the Problem of Clinical Manifestation and Treatment
of Notoedrosis in Cats.

Orig Pub: Tr. Alma-Atinsk. zoovet. in-ta, 1956, 9, 202-204.

Abstract: Notoedrosis manifests itself in a scaly form mostly,
which resembles born itch in large horned cattle. In
long furred cats the lesions are more pronounced.
The diseased cats were treated with the ASD f-3 com-
pound, which was used either in a pure form or in a
10 percent oil emulsion. In cats treated with the
pure preparation side effects were observed. The 10

Card : 1/2

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USSR/Diseases in Farm Animals. Diseases Caused by Arachno-
Entoms.

R-2

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54956.

percent emulsion did not cause any side effects, and
the cats recovered after a repeated treatment in 5-6
days. Also, good results were obtained by administer-
ing a slightly heated naphtalene-camphor ointment.

Card : 2/2

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"The work of helminthological brigades..."
Veterinariya, vol. 39, no. 2, February 1962 pp. 15

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Field shower (SDU-G) mechanized washing of farm animals. Veteri-
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